

Amendments to the Specification:

Please amend the title that appears on page 1, line 1 as follows:

~~Multiscale localization procedure~~
MULTISCALE LOCALIZATION PROCEDURE

On page 1, before the paragraph beginning on line 5, please insert the following subheading:

BACKGROUND

On page 1, before the paragraph beginning on line 27, please insert the following subheading:

SUMMARY

On page 1, please amend the paragraph that begins on line 30 and continues to page 2, line 4, as follows:

According to an exemplary embodiment ~~of the present invention~~, this object may be solved with a tracking method for tracking a sensor in a capture range in a field generated by a field generator, wherein a field is generated by means of the field generator for defining the capture range, a region of interest including the sensor is identified within the capture range and the capture range is iteratively narrowed by narrowing the field by means of a field generator to enclose the region of interest.

On page 2, please amend the paragraph which spans lines 18-24, as follows:

According to other exemplary embodiments ~~of the present invention as set forth in claims 2, 3 and 4~~, a position of at least one coil in the field generator is adjusted, the field generator itself is adjusted or an orientation of at least one coil in the field generator is adjusted for narrowing the capture range. According to these

exemplary embodiments of the ~~present invention~~, a very simple and effective method for narrowing the capture range is provided, which allows to adjust the capture range with a high degree of accuracy.

On page 2, please amend the paragraph which spans lines 18-24, as follows:

Preferably, the method ~~according to the present invention~~ is supported by a "scalable localization system" which can be scaled in terms of the size and position of the box of motion or capture range and the accuracy and resolution.

On page 2, please amend the paragraph which begins on line 25 and continues to page 3, line 2, as follows:

According to another exemplary embodiment ~~of the present invention as set forth in claim 5~~, a tracking system is provided for tracking a sensor in a capture range in a field generated by a field generator, wherein the field generator is adapted to adjust one of a size, direction and orientation of the capture range. Advantageously, the tracking system according to the exemplary embodiment of the present invention allows to meet with an accuracy and resolution required by a user for different applications.

On page 3, please amend the paragraph which spans lines 3-9, as follows:

As set forth in the exemplary embodiments ~~of the present invention of claims 6 to 8~~, the capture range may be adjusted by adjusting a position of at least one coil in the field generator, by adapting the field generator such that it is moveable and by accordingly moving the field generator or by adjusting an orientation of at least one coil in the field generator. Alternatively, a plurality of coil arrangements may be provided, each generating a different size of field, i.e. capture range, which can be iteratively selected.

On page 3, please amend the paragraph which spans lines 10-16, as follows:

According to another exemplary embodiment of ~~the present invention as set forth in claim 9,~~ a computer program product is provided comprising computer program code means to perform the method according to the present invention when the computer program is executed on a computerized tracking system. Advantageously, the computer program product according to the present invention allows to minimize a computational power required in the tracking system by providing an iterative procedure which can easily be performed.

On page 3, please amend the paragraph which spans lines 17-24, as follows:

~~It may be seen as the gist of an exemplary embodiment of the present invention that the~~ The capture range is iteratively adjusted to a level where the accuracy and resolution required in a certain application is met. When the capture range is large, the required accuracy and resolution is low. So, the target area can be identified and aimed at. Given this identification, the capture range can be focused and centered around the region of interest, which in turn leads to increased accuracy, resolution and frame rate. This process can be repeated in iterations leading to a small capture range and a large accuracy and resolution.

On page 3, before the paragraph beginning on line 27, please insert the following subheading:

BRIEF DESCRIPTION OF THE DRAWINGS

On page 4, before the paragraph beginning on line 17, please insert the following subheading:

DETAILED DESCRIPTION

On page 9, after the last paragraph ending on line 18, please insert the following new paragraph:

The invention has been described with reference to the preferred embodiments. Modifications and alterations may occur to others upon reading and understanding the preceding detailed description. It is intended that the invention be construed as including all such modifications and alterations insofar as they come within the scope of the appended claims or the equivalents thereof.